



Colorado Department of Public Health and Environment Environmental Agriculture Program CAFO Nutrient Management Plan (NMP)

RECEIVED

I. GENERAL INFORMATION	DEC 2 1 2012
	ENVIRONMENTAL AGRICULTURE
Facility Name: Ribeye Feede <u>rs Ltd.</u> NPDES Permit N	umber: COA-932_ PROGRAM
Owner/Operator: Rodger John & Lindalyn Sue Nelson	
Facility Physical Address: 29998 Otero County Road 19	
City: Rocky Ford State: CO Zip Code: 81067	
Facility Phone: 719-469-1394 Email/Cell No.: rjlindy@centurytel.ne	t/719-469-1394
CERTIFICATION STATEMENT	
I certify under penalty of law that this document and all attachments were prepared accordance with a system designed to assure that qualified personnel properly gath submitted. Based on my inquiry of the person or persons who manage the system, or gathering the information, the information submitted is to the best of my knowledge I am aware that there are significant penalties for submitting false information, inclimprisonment for knowing violations.	er and evaluate the information r those persons directly responsible for and belief, true, accurate and complete.
A. NAME AND OFFICIAL TITLE (PRINT OR TYPE)	B. PHONE NUMBER
ROGER J NELSON	719-469-1394
C. SIGNATURE	D. DATE SIGNED
Roger of Welson Pres	12-14-12
II. NUTRIENT MANAGEMENT PLAN INFORMATION ¹ NMP Public Notice Date: NMP Approval Date:	
NMP Implementation Date: NMP Revision Date ² :	
Permit Expiration Date:	
¹ The Environmental Ag Program can provide this information if not known.	
² Note to CAFOs: To revise a NMP, the CAFO must provide the Ag Program the moderatify changes from the previous version (preferably in track changes or otherwise Ag Program will review the revised NMP to ensure that it meets applicable require NMP changes necessitate revision to the terms incorporated into the CAFO's permoderages are substantial as described in Colorado Water Quality Control Commission Discharge Permit System Regulations, 5CCR 1002-61, (Regulation No. 61).	ne highlighted and clearly identified). The ments including effluent standards. If the nit, the Ag Program will determine if such
If the changes are deemed to be non-substantial, the Ag Program will revise the ter incorporated into the permit, notify the owner or operator, and inform the public of required). The revised NMP will then be added to the permit record.	
If the changes to the terms of the NMP are deemed substantial, the Ag Program will proposed changes on the CDPHE's website for a period of 10 business days. Inform of the NMP changes will be available for public review and comment upon request terms of the NMP are incorporated into the permit, the Ag Program will notify the decision concerning changes to the terms and conditions of the permit.	nation submitted by the CAFO in support during this time. Once changes to the
ASSOCIATED RECORDS: A current and approved version of the Nutrient	Management Plan is kept on-site at





III. STORAGE OF MANURE AND PROCESS WASTEWATER

Adequate storage of manure and process wastewater is maintained, including the implementation of procedures to ensure proper operation and maintenance of the impoundments and tanks. [Regulation No. 61.17(8)(b)(iii)]

The following procedures are followed by the facility:

- (A) Except during the designed storm event, manure and process wastewater stored in impoundments and terminal tanks is removed as necessary to maintain a minimum of two feet of freeboard or the Program-approved alternative freeboard level.
- (B) Whenever the design capacity of impoundments and tanks is less than the volume required to store runoff from the designed storm event, the structures are dewatered to a level that restores the required capacity as soon as soils on a land application site have the water holding capacity to receive process wastewater.

land application site have	the water holding	ng capacity t	to receive process wastewat	er.	
Storage Needs					
Manure volume generate	ed annually by	the facilit	ty: 3600 tons		
Process wastewater volu	me generated	annually b	by the facility:2,270,00	0 gallo	ons
Process Wastewater Sto	rage Informa	tion			
Impoundment/ Tank/Drainage Basin ID	Total Cap Required to Wastes Accu During the Period (acr	Hold all mulated Storage	Total Capacity Requir Contain Storm Event R and Direct Precipitat (acre-feet)	unoff	Total Capacity Available (acre-feet)
West Pond	0.0		11.1		13.6
East Pond	0.0		3.3		5.1
Manure Storage Inform	nation:				
Manure Storage A	rea ID	Amoun	t of Manure Produced (tons/year)		l Amount of Non-Pen Area anure Storage Available (estimated volume)
Manure is transferred to a t	n area? \overline{X}]No]No		
ASSOCIATED RECORDS					
The facility maintains the foll	owing records to	ensure adec	quate storage of manure and	l process	wastewater:
Records documenting the design treatment volume,			storage structures, including roximate number of days of		
Records documenting that as necessary to maintain a			ater stored in impoundments board, or the Program-appr		
 Weekly records of the dep tank as indicated by the re impoundment. 					ent(s) and terminal storage m pump-down level for each

4) Daily records of inspections of water lines, including drinking water or cooling lines.





IV. ANIMAL MORTALITY	Y MANAGEMENT	
Mortalities remain on the producti	nals) are managed to prevent discharge of poon area until disposal and are managed to en process wastewater storage system that is not 61.17(8)(b)(iv)]	sure that they are not disposed of
Method of Animal Mortalities Har	ndling (check all that are applicable):	
Composting		2
Rendering		
☐ Burial		
Other:		
Mortality Storage Area ID	Drainage	Impoundment/ Tank/Drainage Basin ID
	Drains to	
	Drains to Drains to	
	Drains to	
	t animal mortalities are not disposed of in liquid not specifically designed to treat animal mortaliti created.	
V. DIVERSION OF CLEA	N WATER	
	riate, from the production area (i.e., from holice stockpiles, composting areas, etc.). [Regularization of the composting areas, etc.]	
Clean water is diverted from runni	ing onto the production area: X Yes	No
Clean water diversions used (chec	k all that apply and indicate location where c	liversion is used):
	Location Used:	
Berms	Along County Road 19	
Channels	East South & Northwest side	of pens
Natural Topography	North side of pens	
Other		
ASSOCIATED RECORDS:		
	ecords to document appropriate diversion of clea	
Results of weekly visual inspection devices and structures.	ns of the production area and weekly inspections	s of all storm water run-on diversion





VI. PREVENTION OF DIRECT CONTACT OF ANIMALS WITH SURFACE WATER

Confined animals are prevented from having direct contact with surface water that is defined as waters of the United States. [Regulation No. 61.17(8)(b)(vi)]

Waters of the United States means, in part:

- a) All waters... susceptible to use in interstate or foreign commerce...;
- b) All interstate waters...;
- c) All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands (including wetlands adjacent to waters identified in (a) through (e) of this definition), sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:
 - 1) Which are or could be used by interstate or foreign travelers for recreational or other purposes;
 - 2) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
 - 3) Which are used or could be used for industrial purposes...;
- d) All impoundments of waters otherwise defined as waters of the United States under this definition2; and

e) Thoulanes of waters identified in paragraphs (a) through (d) of this definition.
¹ Wetlands means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.
² Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the federal Clean Water Act (other than cooling ponds as defined in 40 CFR 423.11(m) which also meet the criteria of this definition) are not waters of the U.S. This exclusion applies only to manmade bodies of water which neither was originally created in waters of the U.S. (such as disposal area in wetlands) nor resulted from the impoundment of waters of the U.S.
1. Waters of the United States flow through the production area? Yes X No
2. Animals have access to waters of the United States? Yes X No
 If yes, list the measures (e.g. fencing) used in the production area to prevent direct contact of animals with waters of the United States:
ASSOCIATED RECORDS:
The facility maintains the following records to document that animals are prevented from direct contact with waters of the United States:
1) Documentation demonstrating appropriate of direct context of our first state of the Cd. III.

- Documentation demonstrating prevention of direct contact of confined animals with waters of the U.S.
- 2) Records are maintained for a period of five years from the date created.





VII. CHEMICAL AND OTHER CONTAMINANT HANDLING

Chemicals and other contaminants are properly handled on-site and are not disposed of in any manure, storm water, or process wastewater storage system unless specifically designed to treat such chemicals and other contaminants. [Regulation No. 61,17(8)(b)(vii)]
Chemical disposal location:
Chemicals are used and empty containers are disposed of in accordance with manufacturer's guidelines
☐ No chemicals are used at the facility
Other:
Chemicals storage location: shop_
Chemicals are not stored in a room with a floor drain that discharges outside (i.e., into the production area)
X Storage is covered
Storage has secondary containment
Chemicals are stored in proper containers
Other:
ASSOCIATED RECORDS:
The facility maintains the following records to demonstrate proper handling of chemicals and other contaminants:
 Documentation demonstrating that chemicals and other contaminants handled on-site are not disposed of in any manure, storm water, or process wastewater storage system unless specifically designed to treat such chemicals and other contaminants.
2) Records are maintained on-site for at least five years from the date created.





VIII. CONSERVATION PRACTICES

Site-specific conservation practices are identified and implemented to control runoff of pollutants to surface water. [Regulation No. 61.17(8)(b)(viii)]

Conservation practices include, but are not limited to the following:

- Solid manure is incorporated into the soils as soon as possible after application, unless the application site has perennial vegetation or is no-till cropped, or except where this nutrient management plan adequately demonstrates that surface water quality will be protected in areas where manure is not incorporated.
- Application of process wastewater to furrow- or flood-irrigated land application sites in a manner that
 prevents any process wastewater runoff into surface waters.
- When process wastewater is sprinkler-applied, the water holding capacity of the soil is not exceeded.
- Process wastewater is not applied to either frozen or flooded (i.e., saturated) land application sites.
- Manure or process wastewater is not applied within 150 feet of domestic water supply wells, or within 300 feet of community domestic water supply wells.

The facility implements the following best management practices to control runoff of pollutants to surface water. (check all that apply)

Conservation Practice	*Land Application Site ID Where Practice is Implemented
Buffer	
Setback	
Conservation Tillage	,
Constructed Wetland	0
☐ Infiltration Field	
Grass Filter	
Terrace	
☐ Tail Water Pit	
Process wastewater is not allowed to reach end of field	
Other (describe):	
Other (describe):	
Other (describe):	

*For land application sites where surface water is located in or down-gradient of the site.

ASSOCIATED RECORDS:

The facility maintains the following records to document site-specific conservation practices:

- Documentation demonstrating that site-specific conservation practices have been identified and implemented to control
 runoff of pollutants to surface water.
- 2) Copies of Ag Program approvals for alternative setbacks, if used.
- 2) Records are maintained on-site for at least five years from the date created.



Process

Wastewater

Soil Nitrate

Phosphorus

Soil

Annually²

Annually at a

minimum³

Every five years

at a minimum4



IX. SAMPLING & TESTING OF MANURE, PROCESS WASTEWATER AND SOIL

Manure is analyzed a minimum of once per year for nitrogen and phosphorous content, and a minimum of once every five years for soils for phosphorous content. The results are used to determine application rates for manure and process wastewater. The following protocols are used to ensure appropriate sampling and testing of manure. process wastewater and soil. [Regulation No. 61.17(8)(b)(ix)] What is the frequency of manure, litter and process wastewater sampling? Annually XYes Manure is transferred to a third party? Process wastewater is transferred to a third party? [X]Yes¹ No Frequency of soil sampling for nitrate: Frequency of soil sampling for phosphorus: Required Required Analysis Sampling Sampling Protocol **Testing Protocol** Frequency Total Nitrogen **⊠** CSUCE CSU Cooperative Ammonia (as N) Annually² Manure Extension (CSUCE) Program-approved Method Nitrate (as N) 568 A (requested in writing) Total Phosphorus

CSUCE 568 A

Other

Other

Specify:

Specify:

CSUCE 568 A

CSUCE 568 A

_	
1	Note to CAFOs: Prior to transferring manure or process wastewater to other persons, Large CAFOs must provide the
	recipient of the manure or process wastewater with the most current nutrient analysis. Large CAFOs must retain for five
	years records of the date, recipient name and address, and approximate amount of manure or process wastewater
	transferred to another person.

Total Nitrogen

Nitrate (as N)

depth zone(s)

depth zone(s)

Ammonia (as N)

Total Phosphorus

Nitrate in necessary

⁵Phosphorus in necessary

ASSOCIATED RECORDS:

The facility maintains the following records to document manure, process wastewater and soil testing:

- A list of all protocols used for appropriate sampling and testing of manure, process wastewater and soil are maintained onsite for at least five years from the date created.
- Results from sampling and testing of manure, process wastewater and soil are maintained on-site for at least five years from the date created.

USEPA Method

Program-approved Method

"Methods of Soil Analysis,

Program-approved Method

Part 3, Chemical Methods"

Part 3, Chemical Methods"

Program-approved Method

(requested in writing)

(requested in writing)

"Methods of Soil Analysis,

(requested in writing)

Manure and process wastewater are sampled and tested for nitrate as often as necessary to meet the application rate calculation requirements.

³ If analyses are conducted more frequently than annual, the analysis results are kept on-site for five years.

Soils are sampled and tested for phosphorus a minimum of once every five years or as necessary to meet the transport risk assessment requirements.

Appropriate soil sampling depths for phosphorus will vary by cropping system based on the description of the Soil Test Phosphorus Risk Factor 2 from the Colorado Phosphorus Index Risk Assessment.



X. LAND APPLICATION

Land application of manure or process wastewater is done in accordance v practices that ensure appropriate agricultural utilization of the nutrients in [Regulation No. 61.17(8)(b)(x) through (xii)]

Map(s) of land application sites are included in Appendix A.

Fields utilized for land application of manure and/or process wastewater a

Intended crops for each land application field are listed in Table B-2 in A_f calculations for each crop are included in Appendix C.

Crop nutrient requirements are listed in Table B-3 in Appendix B.

The methodology outlined in this section is adhered to each year in order to determine nutrient application rates, as a term of the permit. Intended crop rotations are listed for each field; however, any crop in Table B-2 may be planted, as dictated by operating conditions. Nutrient applications and field nutrient balances are projected for the next five years, but these projections are for planning purposes only.

Limitations on application rates are determined in accordance with CSUCE Published Fertilizer Suggestions, or as otherwise listed in **Appendix D**. Maximum nutrient application rates are determined based on the following:

- The amount of N and P in the manure that will be plant available is determined using the CSUCE Published Fertilizer Suggestions for each crop.
- Nitrogen application rates (commercial fertilizer + plant available manure N) will not exceed crop N
 requirements (listed in Table 3) minus N credits:

Crop N Uptake

- Organic Matter N Mineralization
- Past Year Legume N Credit
- Past Year Manure N Credit
- Soil Residual N

Total N Application

(Manure + Commercial Fertilizer)

- Nitrogen credits including organic matter mineralization, past year legume credits, past year manure credits, and soil residual N will be determined in accordance with CSUCE Published Fertilizer Suggestions, or other sources as listed in Appendix D, for each crop.
- The outcome of field-specific assessment of potential for nitrogen and phosphorus transport to surface water for each field, using the USDA, NRCS Colorado Phosphorus Index Risk Assessment tool or other Divisionapproved method. The Colorado Phosphorus Index Risk Assessment is detailed in Appendix E.
- Application calculations are included in Appendix F, including projected manure and process wastewater
 applications and field nutrient balances for five years.

ASSOCIATED RECORDS:

The facility maintains the following records to document land application in accordance with site-specific nutrient management practices:

- Documentation demonstrating that protocols established for land application of manure or process wastewater is conducted in accordance with site-specific nutrient management practices.
- Calculation records demonstrating appropriate agricultural utilization of the nutrients in the manure or process wastewater.

NMP for [insert facility name]

Rest of this plan does not apply to Ribeye





XI. LAND APPLICATION EQUIPMENT INSPECTIONS
Manure and process wastewater is applied as uniformly as possible with properly calibrated equipment. [Regulation No. $61.17(8)(b)(x)(B)$]
1) Nutrient application equipment is calibrated at least annually? Yes No
2) Method(s) of process wastewater application?
3) Method(s) of manure application?
4) Nutrient application equipment is inspected within the six month period prior to the first application of manure or process wastewater? ☐ Yes ☐ No
5) Nutrient application equipment is inspected daily when wastewater is being applied? Yes No
ASSOCIATED RECORDS:
The facility maintains the following records to document equipment inspections:
 Records documenting the date of periodic leak inspections of equipment used for land application of manure or process wastewater.
XII. SETBACK REQUIREMENTS
Manure and process wastewater is not applied closer than 100-feet to any down-gradient surface waters, open tile line intake structures, sinkholes, agricultural wellheads or other conduits to surface water. [Regulation No. 61.17(8)(f)(iv)]
 1) 100-foot setbacks are used between land application sites and any down-gradient surface waters, open tile line intake structures, sinkholes, agricultural wellheads, or other conduits to surface waters?
Yes No
2) A 35-foot vegetated buffer is used between land application sites and all down-gradient water of the U.S., open tile intake structures, sinkholes, agricultural wellheads, or other conduits to waters of the U.S. where applications of manure, litter, or process wastewater are prohibited within the buffer.
Yes No
3) A setback alternative (approved by the Ag Program) is used to provide pollutant reductions equivalent or better than the reduction that would be achieved by the 100-foot setback?
☐ Yes (please describe) ☐ No (please explain)
Please describe:
The following combination of setbacks, buffers and/or approved alternatives are used, as indicated below:
Compliance Practice Implemented Land Application Site ID Where [(1), (2) or (3) above]: Practice is Implemented:
Down-gradient Surface Waters
Open Tile Line Intake Structure
Sinkholes
Agricultural Wellheads
Other Conduits to Surface Waters
ASSOCIATED RECORDS:
The facility maintains the following records to document setback requirements:
 Records documenting setbacks used, and/or Ag Program approval of any setback alternatives.





APPENDIX A

NUTRIENT MANAGEMENT PLAN TERMS (1-6)

1) LAND APPLICATION FIELD MAPS





APPENDIX B NUTRIENT MANAGEMENT PLAN TERMS

2) LAND APPLICATION INFORMATION





NMP TERMS - 2) LAND APPLICATION FIELDS

All land application fields are listed below.

Table B-1 - Land Application Fields

		· ·
1		
		+
-	<u> </u>	1
7		
		1
		-
		
 		+

¹Enter latitude in decimal degrees.

²Enter longitude in decimal degrees [number should be negative (eg. -104.3315)].

³Field acreages reduced by any setbacks, buffers, or otherwise unspreadable areas.





NMP TERMS - 2) LAND APPLICATION CROPS

All potential crops or other uses for each land application field are listed below.

Table -B-2 - Potential Land Application Field Crops

Field Identification	Crop	Realistic Yield Goal (See Appendix C)	Yield Unit (bushels, tons, etc.
The state of the s			
			7.
		1	





NMP TERMS - 2) LAND APPLICATION CROP NUTRIENT NEEDS

Nutrient needs for each potential crop or other uses for each land application field are listed below.

Table B-3 - Crop Nutrient Needs

Crop	Yield Unit (bu, tons, etc.)	N Requirement (lbs/yield unit)	Information Source (see Appendix D)
			-
		7.0	
		NAME OF THE OWNER OWNER OF THE OWNER	





APPENDIX C

NUTRIENT MANAGEMENT PLAN TERMS

3) EXPECTED CROP YIELD INFORMATION





3) CROP YIELD INFORMATION REALISTIC YIELD GOAL WORKSHEET

Historical crop yield information source: http://www.nass.usda.gov/Data and Statistics/Quick Stats 1.0/index.asp

Crop:				
Column A	Column B			
Year	Yield	Units (bu/ac, tons, etc.)	Notes: (i.e. dro	ought, flood)
OTAL:		/=	+10%	
	Total Bushels (Sum of Column B)	# of Years (from Column A)	Average	Realistic Yield Goal
acility Nar	d information source:	LISTIC YIELD GO		
acility Narield Identi	d information source: me: fication:			
acility Nar	d information source:			ick Stats 1.0/index.asp
acility Narield Identi	me: fication: Column B	http://www.nass.usda.gov	//Data and Statistics/Qu	ick Stats 1.0/index.asp
acility Narield Identi	me: fication: Column B	http://www.nass.usda.gov	//Data and Statistics/Qu	ught, flood)





APPENDIX D

NUTRIENT MANAGEMENT PLAN TERMS

4) NUTRIENT BUDGET INFORMATION





4) NUTRIENT BUDGET INFORMATION

Crop:	Manure and Process Wastewater Application Rate Calculated Using:	Description of Method to be Used (calculation, look-up table, etc.):
	☐ CSUCE Published Fertilizer Suggestions ☐ Adjacent State CE-Published Fertilizer Suggestions ☐ CNMP Method that meets USDA-NRCS standards ☐ CO NRCS NMP guidelines ☐ Ag Program-approved Method	
3	☐ CSUCE Published Fertilizer Suggestions ☐ Adjacent State CE-Published Fertilizer Suggestions ☐ CNMP Method that meets USDA-NRCS standards ☐ CO NRCS NMP guidelines ☐ Ag Program-approved Method	
	☐ CSUCE Published Fertilizer Suggestions ☐ Adjacent State CE-Published Fertilizer Suggestions ☐ CNMP Method that meets USDA-NRCS standards ☐ CO NRCS NMP guidelines ☐ Ag Program-approved Method	
	☐ CSUCE Published Fertilizer Suggestions ☐ Adjacent State CE-Published Fertilizer Suggestions ☐ CNMP Method that meets USDA-NRCS standards ☐ CO NRCS NMP guidelines ☐ Ag Program-approved Method	
	☐ CSUCE Published Fertilizer Suggestions ☐ Adjacent State CE-Published Fertilizer Suggestions ☐ CNMP Method that meets USDA-NRCS standards ☐ CO NRCS NMP guidelines ☐ Ag Program-approved Method	74
	☐ CSUCE Published Fertilizer Suggestions ☐ Adjacent State CE-Published Fertilizer Suggestions ☐ CNMP Method that meets USDA-NRCS standards ☐ CO NRCS NMP guidelines ☐ Ag Program-approved Method	
	☐ CSUCE Published Fertilizer Suggestions ☐ Adjacent State CE-Published Fertilizer Suggestions ☐ CNMP Method that meets USDA-NRCS standards ☐ CO NRCS NMP guidelines ☐ Ag Program-approved Method	
	☐ CSUCE Published Fertilizer Suggestions ☐ Adjacent State CE-Published Fertilizer Suggestions ☐ CNMP Method that meets USDA-NRCS standards ☐ CO NRCS NMP guidelines ☐ Ag Program-approved Method	
listic yield g	goals determined using worksheet(s) is Appendix C? Y goals determined using methods other than worksheet(s) is how realistic yield goals will be determined (crop insurance)	s Appendix C? Yes No





APPENDIX E

NUTRIENT MANAGEMENT PLAN TERMS

5) COLORADO PHOSPHORUS INDEX RISK ASSESSMENT



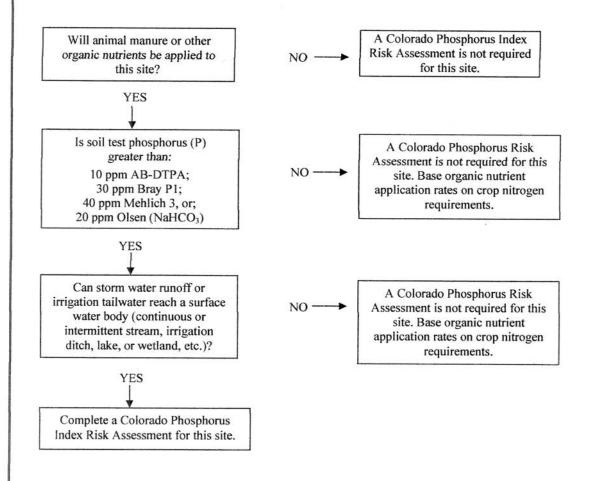


5) PHOSPHORUS AND NITROGEN TRANSPORT

Application rates for manure and process wastewater applied to land application sites minimize phosphorus and nitrogen transport from the application sites to surface waters. An initial assessment of the potential for phosphorus and nitrogen transport risk to surface water will be made prior to manure or process wastewater being applied to an application site. [Regulation No. 61.17(8)(b)(xii)(B)]

There is currently no published tool suitable for assessing nitrogen transport risk. Phosphorus and nitrogen transport risk will be assessed using the Colorado Phosphorus Index Risk Assessment.

The following flow chart will be used to determine if a phosphorus risk assessment must be completed for a land application site:







5) PHOSPHORUS AND NITROGEN TRANSPORT (continued)

For land application fields that require a Colorado Phosphorus Index Risk Assessment to be completed, the following applicable best management practices will be incorporated:

- (A) Phosphorus-based manure and process wastewater application rates may be made to application sites where the risk of off-site phosphorus transport is scored as high.
- (B) No application of manure or process wastewater will be made to land application sites where the risk of off-site phosphorus transport is rated as very high¹.
- (C) No application of manure or process wastewater will be made to a land application site where the risk of off-site nitrogen transport to surface water is not minimized.
- (D) Where a multi-year phosphorus application was made to a land application site, no additional manure or process wastewater will be applied to the same site in subsequent years until the applied phosphorus has been removed from the site via harvest and crop removal.

After completing an initial assessment of the potential for phosphorus and/or nitrogen transport from a land application site to surface water, additional assessments will be made every five years or at the frequency described below, whichever is sooner:

Cause for Re-Assessment	Frequency		
Where a crop management change has occurred	For phosphorus - Assess within one year after such a change would reasonably result in an increase in the transport risk assessment score. For nitrogen – Assess within one year after such a change would reasonably result in the nitrogen transport to surface water not being minimized.		
Where a phosphorus transport risk assessment score was very high	Assess phosphorus transport risk within six months of intending to apply manure or process wastewater, except where the initial assessment is scored as very high, then there shall be a three-year period within which to manage the site for the purpose of lowering the phosphorus transport risk assessment rating to high or less. During this period, manure or process wastewater may be applied to the site at either nitrogen- or phosphorus-based rates.		
Where a nitrogen transport risk assessment reveals that nitrogen transport to surface water is not minimized	Assess nitrogen transport risk within six months of intending to apply manure or process wastewater.		

ASSOCIATED RECORDS:

1) Copies of phosphorus/nitrogen transport risk assessments are maintained on-site.

Where the initial assessment of a land application site scores very high, the facility has a three-year period within which to manage the site for the purpose of lowering the phosphorus transport risk assessment rating to high or lower. During this period, manure or process wastewater may be applied to the site at either nitrogen- or phosphorus-based rates.





APPENDIX F

NUTRIENT MANAGEMENT PLAN TERMS

6) FIELD NUTRIENT BALANCE CALCULATIONS





6) FIELD NUTRIENT BALANCE CALCULATIONS SHEET

(Conduct calculations for each crop, for each field)

Land Applic <i>Table F-1</i>					Per	mit Num	ber:		
able F-1	ation Site N	Name:	- 			D	ate:		
					THE COLUMN TWO IS NOT				
Year	Crop s	equence/i	rotation	and year (circle	current cro	op)			Yield Goa rent year)
Crop									
Table F-2									
Current soil	test levels (oom or l	b/ac)						
Soil Test Date	N* (as NO ₃ -N)	P*	Phos	phorus Test Extrac DTPA, Bray, Mehlich,		K	рН	CEC	O.M.%
Must be teste	ed								
able F-3									
	ommended	nutrients	/amend	ments to meet re	alistic vield	gnal (se	Annendix	R. Table R.	3)
N ¹		P ₂ O ₅		K ₂ O	anstre y teru	Lin		Other:	
		170	25	1120		2,111		Other	•
WITH THE PERSON NAMED IN POST OF THE PERSON NAMED IN POST	CA SELLONDON		2028 5 2 1974	Sources		The little of the last transfer	COMPANY OF THE PARTY OF THE PAR	N	
								21ha/aa	
. Nitrogen c	redits from	previous l	legume o	crop				²lbs/ac	
. Nitrogen c				стор				²lbs/ac	
. Nitrogen c	redit from in soil organic	rrigation v	water	crop on, atmospheric dep	oosition/evap	oration)		²lbs/ac	
. Nitrogen c . Other (e.g., . Soil nitrog	redit from in soil organic	rrigation v	water	on, atmospheric dep		oration)		²lbs/ac	
. Nitrogen c	redit from in soil organic	rrigation v	water			oration)			
. Nitrogen c . Other (e.g., . Soil nitrog	redit from in , soil organic en credit	rrigation v matter mir	water	on, atmospheric dep		oration)		² lbs/ac	
. Nitrogen c . Other (e.g., . Soil nitrog Credits (free	redit from in , soil organic en credit om row 5 ab	rrigation v matter min	water neralizati	on, atmospheric dep	credits				
Nitrogen c Other (e.g., Soil nitrog Credits (fre	redit from it, soil organic en credit om row 5 at able nitroge	matter min	water neralizati	on, atmospheric dep	credits		er		
. Nitrogen c . Other (e.g., . Soil nitrog Credits (free	eredit from in soil organic en credit om row 5 al able nitroge Starte	matter min	water neralizati	on, atmospheric dep	credits		er		
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APPENDIX G RECORDKEEPING CHECKLIST





Recordkeeping Checklist

The	following records are maintained on-site as stated in the NMP and are required by the permit:
	A current and approved version of the Nutrient Management Plan.
	Documentation of the current design of all manure storage structures, including volume of solids accumulation, design treatment volume, total design volume, and approximate number of days of storage capacity.
	Documentation that manure and process wastewater stored in impoundments is removed (i.e. pumping records) as necessary to maintain a minimum of two feet of freeboard, or the Program-approved alternative freeboard level.
	Weekly documentation of the depth of the manure and process wastewater in the liquid impoundment(s) and terminal storage tank as indicated by the required depth marker. Records include notation of the design storm pump-down level for each impoundment.
	Daily documentation of inspections of water lines, including drinking water lines or cooling lines.
	Documentation demonstrating that animal mortalities are not disposed of in liquid manure, storm water, or process wastewater storage system that is not specifically designed to treat animal mortalities.
	Weekly documentation of visual inspections of the production area.
	Weekly documentation of inspections of all storm water run-on diversion devices and structures.
	Documentation demonstrating prevention of direct contact of confined animals with waters of the U.S.
	Documentation demonstrating that chemicals and other contaminants handled on-site are not disposed of in any manure, storm water, or process wastewater storage system unless specifically designed to treat such chemicals and other contaminants.
	Documentation demonstrating that site-specific conservation practices have been identified and implemented to control runoff of pollutants to surface water.
	Documentation of all protocols used for appropriate sampling and testing of manure, process wastewater and soil.
	Results from sampling and testing of manure, process wastewater and soil.
	Documentation demonstrating that protocols established for land application of manure or process wastewater is conducted in accordance with site-specific nutrient management practices.
	Calculations demonstrating appropriate agricultural utilization of the nutrients in the manure or process wastewater.
	Documentation of the date of periodic leak inspections of equipment used for land application of manure or process wastewater.
	Documentation of setbacks used, and/or Ag Program approval of any setback alternatives.
THE RESERVE AND ADDRESS.	

Derald Lang, P.E. 6856 Dudley Circle Arvada, CO 80004 Phone # 303/420-0435

Ribeye Feeders Ltd. East Pond Liner Recertification

Ribeye Feeders Ltd. has two storm water runoff containment ponds for the open lot storm water runoff. Liner retesting of the east pond was completed on December 3, 2012. This pond is situated in clay soil deposits which serve as the pond's liner.

A falling head seepage test was performed on the pond liner to measure the liner seepage rate. The test was conducted during November. 2012. The test was conducted by installing a 4 inch standpipe 12 inches into the pond's liner and then filling the standpipe with water and capping the standpipe to eliminate evaporative loss and precipitation gain. The resulting fall in water head over the test period replicates the amount of seepage through the liner. The static water head in the standpipe was greater than the high water level of the pond. Over the 19 day test period the static water level dropped 1.3 centimeters. Thus, the measured seepage rate for the east pond was 7.9 x 10-7 cm/sec (1.3 cm/19 days/24 hr/day/60 min/hr/60 sec/min).

The test standpipe was removed from the pond liner at the conclusion of the seepage test and the resulting pipe intrusion was filled with clay liner material and compacted so that the liner integrity was maintained

Based on the seepage test results of the clay liner for the Ribeye Feeders Ltd. east storm water run off containment pond, which is located in the SW, S6, T23S, R56W, with a physical location at the intersection of Otero County Roads 19 & GG; I certify that the containment pond liner of east pond meets the Colorado Water Quality Control Commission Regulation 81 required seepage rate of 1 x 10-6 cm/sec.

December 5, 2012

Certified by Deraid Lang P.E. #1204:

RECEIVED

DEC 2 1 2012

ENVIRONMENTAL AGRICULTURE PROGRAM

CHECKLIST FOR CAFO PERMIT APPLICATION	1 REVIEW	7
Name of Applicant Ribers Feeders, LTD Read	12 21 21	
		UDED:
APPLICATION REVIEW 932030 Rev. 1-2-2013	YES	NO
Section I - Application Type		WANTED BEAU
Type of Application Indicated (check box checked)		
Section II - Applicant Info	· · · · · · · · · · · · · · · · · · ·	
Facility Owner		
Facility Owner Address		
Facility Owner Contact Info		
Facility Operator		
Facility Operator Address		
Facility Operator Contact Info		
Legal Contact		
Registered Agent Identified		
Registered Agent Contact Ifo		
On-site Contact Information		
Section III - Location Info		
Facility Name		
Facility Location		
Lattitude and Longitude		
Legal Description		
Attachment A - Location Map		CHELLIA PLANTA
Location & outline of each production & land application area		14 =
Location and depths of all functional wells, including monitoring wells, within a 1/2-mile radius of the center of the production areas		
Name & location of public roads located within one mile of the production area		
Name & location of the surface water(s) that will receive discharge(s) from each retention structure		
Attachment B - Site Plan		
Drainage patterns from production area(s)		
Label structures, including covered buildings or sheds, pens, milking parlors, office, confined production buildings, egg washing buildings, and other significant structures		
Label manure storage areas		
Label composting areas		
Label impoundments, tanks and wastewater tanks		
Label lift stations and piping to impoundments and wastewater tanks		
Label transfer piping between impoundments, wastewater tanks, manure separation systems, pens, and lift stations		
Label berms, including run-on diversion berms		
Label process wastewater conveyances		
Location of 100-year flood plain within the area		
Location after each impoundment where a planned discharge to waters of the U.S. will occur and where effluent samples will be collected		